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OMI Data Processing

Overview and Status

KNMI / Jacques Claas

Status data processing

- OMI data processing very stable; no issues.
- Version 1.1.3 of the L0-L1b data processing software is running since February 2010.
  No plans for software updates on a short term.
- Current data collection is Collection 3 (since 2007).
- All Collection 3 L1b, L2 and higher data products are available on the DISC.
- No L0 reprocessing plans on a short term.
- In case of a changing behaviour of the OMI row anomaly, occasional post-processing of the L1b data is needed (updating of flags only).

Preparations for a possible Collection 4

- Analysis of all OMI L1b data has started in July 2014.
  Analysis will probably take a few years.

- Goal is to find any trends/errors/omissions in the key calibration parameters.

- Based on analysis results a decision will be made to yes/no reprocess all L0 data for a new Collection 4.
  An update of the L0-L1b data processor is needed for this.

- A possible reprocessing for Collection 4 will take a few years.
  Not expected to start before 2017.

Security

- Due to increased NASA security measures the interface between the OMI SIPS at Goddard and the OMI Data Processing System (ODPS) at KNMI is currently being updated.

- To minimize the impact on the interface, OSIPS will get files from ODPS instead of ODPS sending files to OSIPS for which VPN connection needs to be setup.

- New interface operational by the end of September.

New hardware at KNMI

- The current hardware of the OMI Data Processing System is more than 5 years old.
- Since OMI is still functioning very well and prospects look good, investment is made to install new hardware.
- New hardware must be operational by the end of 2014.

Data preservation

- Due to manpower limitations work on the preservation of OMI data (doc's, data, software) has not started yet.

TROPOMI is the future (launch 2016 Q1)

TROPOMI